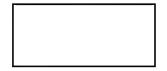
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7 May 1971

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In the critique of my first draft of DD/S&T history of the Historical Staff raised the following question which I hope you can give me some language to answer:

The point that most Agency RD&E is focused on the development of operational systems instead of on broad based exploration looking toward scientific breakthroughs is quite appropriate. This is a major problem, but some basic research sponsored by the Agency is so general and so abstract that it is not only costly but duplicates activities that have very broad non-intelligence applications. A number of ORD projects have been in this category, such as non-structured retrieval systems. What has DDS&T thinking been like on this subject?



STAT

There is no baise research in the Agency program: there is very little applied research. This reflects the widely used criteria that have research is directed only to improving the state of Knowledge, and that applied research is "mission ariented," is there is a clear relationship between the effort of Agency needs, For example, a bit of applied research in physiology is spansered to determine if such phenomena as eye movement or teapproved took Release house 129: CHAPPES BOOS OF SKOOD 2006 1000 2-0 as reliable

Palygrayah data.

Duplication is generally a mise policy in remarch - basic of applied. The reason for this there in the high degree of uncertainty associated with the problem. Wateom of Crick in the Dauble Welix illustrate this windly. Sid Gattlieb has requested ORD to duplicate same exploratory

TSD afforts in ______ - and it has paid off. Its very difficult for remarchers to remain unbiased is maintains an apun mind.

Naw, the Agmey has undoubtedly undertaken some work it shouldn't have and may have performed poorly at times, the relative balance may have been less than ideal, — but perfection is not attainable, and, represently in receased, sygresunts a subjective view. That's the reason most reverse work in academic institutions

is apparaued by committee. In the Agency the decision to undertake any R.D effort must be approved at different buck depending an the funds required. In the case of ORD & some of the computer work, it is important to consider sweral factors: the decision to establish & maintain the IPRD has been hatly debated & Twill probably remain a questionable way of advancing the Agency's capabilities in using computers; is the activity or revarch intended perhaps in large part simply to put the Agurey on "the team" so as to runain aware of developments? is it in part to retain some particularly valuable staff implayers who might atherwise reign of they rould only work on number Approved FortRelease 2004/01/20: CIA-RDB85B0003R00020001000020 variety

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ORD Budget

	In FY 1963 the ORD budget was approved for	
TAT	and later increased by A plan had	STAT
	been make formulated on the inception of ORD, and approved	
	in principle by the DDCI, for an increase to	STAT
	for FY 1964, and a later plan by the DD/S&T, Dr. Wheelon,	
	wisualized a five-year growth of research and development within the	
	programs mxexxxhexbxmxd scope of scientific disciplines	
	which would play a vital part in the intelligence process.	
	Comparative ORD budgets for ** Fiscal Years	
	1963 through 1970 are shown below;	_
	FY 1963	STAT
	FY 1964	
	FY 1965—	
	FY 1966	
	FY 1967—- FY 1968	
	FY 1969 .	
	FY 1970	

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disciplines

among the various scientific xex The theory of "cross fertilization"/propounded by Mr. McCone and Dr. Scoville has worked pretty well within ORD. Mr. Chapman's insistence that the scientists of UrD not deteriorate into simply letting contracts for research and development, and through the use of

but keep in constant communication with industry and the academic advancements in their fields of endeavor. The use of such devices as the ______is a very valuable tool in this regard /Find out what I/J is and does/

STAT

There has been, and probably will continue to be, an area of indecision in R&D programming: HSMoWIGHR&B be completely tuned to satisfying immediate priority requirements? How much should be devoted to innovation looking to the future? We must remember that five years is about average to bring a sophisticated new piece of equipment or system from research and development to production, and operation; therefore someone must make hard decisions looking five years ahead if we are to preservexeny keep our reserve equity against the future.

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AE The PFIAB recommendations with regard to use of U.S. industrial and academic advancement and facilities to the fullest possible, (look back at the wording of their recommendation).

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Because of funding restraints, primary R&D attention has centered on mature technology rather than on nascent scientific breakthroughs—on operational systems rather than research.

Over a long term such economies may result in missed opportunities, which when eventually r8cognized may cost considerably more as short-term crash programs than the relatively modest costs of regular research. The total Agency R&D program, perhaps more so than any of the others, is being squeezed hard by inflation

R,D & E (1970 rep to PFIAB)

R, D & E seeks to create new ways of applying technology the the needs of intel collection, production and communications, by innovative experimentation and by the adaptation and exploitation of American and foreign technology; and, because of the technological sophistication of other great powers, R D &E must also develop protective and countermeasure capabilities.

RD&E efforts have been grouped under a revised program structure which should improve our ability to plan and evaluate R&D efforts and improve communication and coordination among R&D offices. During com; ing yr we plan to reduce RD&E for collection systems but increase efforts in communication, information processing and exploitation, and in covertaction/program-wide categories.

In addition to research areas noted above, the Agency

pro as	vides	manage	ement si	upport t which	to NBO-fi discus	unded pr sed else	ojects, where.	such	

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1962 - DD/R establishment:

Opposition of DD/P to relinquish TSD's R&D functions. First Bissell, and then Helms.

Agreement by Helms to give ORD the R&D activities of TSD which were directed toward systems and equipment not directly supporting the CS. (March 1962)

The Executive Director (LBK) recommended the DD/R grow by accretion rather than through surgery on DD/P(TSD) and DD/I(OSI). The DD/R to have authority to recruit personnel as well as borrow or acquire from DD/I and DD/P in order to establish his own R&D organization.

July 1962: Kirkpatrick spelled out division of responsibilities: between DD/P and DD/R and re TSD said R&D

unless specifically and mutually agreed; DD/R R&D adaptable to DD/P opns to be reviewed jointly on reaching breadboard stage.

30 July 1962: set up DD/R (and ORD). STAT

Toward end of 1962, certain TSD projects turned over to ORD STAT

March 1963 - PFIAB recommendations for strengthening technical capabilities for collecting intelligence; noted the fragmentation and compartmentation of R&D in CIA; recommended admin arrangement to bring the whole spectrum of modern S&T to bear on major programs and projects of CIA.

Aug 1963: OSI and OCS under DD/S&T; Wheelon named Chairman of R&D Review Bd., but no further mention of TSD relinquishing any more projects---were there other transfers out of TSD at that time?

No -

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Car	TSD scientific types belong to the eer Service? Can they opt for the	"R"? Neilher
1964: ? what dea	elaped ? ORD beginning to build -	they fore
Sept 1965: C	oordination of R, D & E	
STAT	(OPSER) unhappy with reference of ORD; encroaching on D in the R&D sphere.	
STAT	17 July 1967 - agreement.	
STAT standed 69 g a c	y centrally coordinating planning, hile maintaining decentralized exerojects, Agency talent may be effective to exploit expertise in rest the same time retain engineering lose contact with operational elements. Is still in force? What	ecution of ectively search, and support in nents."
Then of the link	Isstill in force? What RD/TSD agreement signed at the sam	
no one has the	hat does it provide for? (A copy 1	for annex?)
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Joint projects - TSD with ORD:

Over the past four years approximately seven	
projects xexexemed carried through research and development	
by ORD have been turned over to TSD for application to	
clandestine operations, but only one project has actually	
come to the operational stage in the field.	STAT
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Better coordination of RD&E is necessary to increase the Agency's efficiency, preclude duplication in contracts and fragmentation of effort, and otherwise improve over-all performance.

A particular objective of the effort to coordinate RD&E was to facilitate communications between those elements of the Agency conducting R&D, those concerned with development and engineering work directly supporting operational units, and those responsible for operations.

Thus the philosophy of centrally coordinating the planning RD&E and monitoring while decentralizing the execution of /projects.

The DD/S&T given responsibility to Director for coordin ation; to convene annual meeting of other DD's to coordinate total program consistent with Agency's goals and objectives, within available resources.

Cost estimates to be prepared by offices engaged in RD&E; all proposals consolidated by DD/S&T into single Agency plan;

representation any significant representations resulting

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in budget actions, shifts of program emphasis, technical breakthroughs or change of goals.

DD/S&T to establish mutually acceptable procedures with other DD's so that proposed RD&E undertakings will be reviewed to insure compatibility with the Agency-wide program, and the DD/S&T will technically review all actions requiring the approval of the DCI.

Approved For Release 2004/01/29: CIA-RDP85B00803R000200010002-0 argued its own case separately with PPB and BOB.

^{2.} Afterwards the whole CIA program has been brought together; more effective procedures - under the RD&E authority of the DD/S&T for coordinating the whole ball of wax.

R&D requirements are so broad as to lack guidance. ONE or PPB do nothing helpful to preparing R&D program. The focus is on technodedy and weapons. There is no place at presence in the Agency where guidance will be developed. For the future, work is being done on a list of requirements for R & D.

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because new problems requiring appenditure

of resources after long range +

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prepared + set. Some from

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necessary - pointly an item for the

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